

1762 Technology Drive 2402 Michelson Drive
 Suite 226 Suite 210
 San Jose, CA 95110 Irvine, CA 92612
 Tel. 408-392-9250 Tel. (949) 752-7049
 Fax 408-392-9262 Fax: (949) 752-7049

MacPherson Kwok Chen & Heid LLP**FACSIMILE COVER**

Date:	December 9, 2004		
To:	USPTO	Fax Telephone #:	(703) 746-9195
		Office Telephone #:	
From:	Greg J. Michelson	Date Sent:	
Subject:	10/758,989	Time Sent:	
Client/File:	M-15319 US	Fax Operator:	

This transmittal consists of 7 total page(s), including this cover sheet.

Message:**BEST AVAILABLE COPY**

If you do not receive all pages, please call (949) 752-7040

THE INFORMATION CONTAINED IN THIS FACSIMILE MESSAGE IS INTENDED ONLY FOR THE PERSONAL AND CONFIDENTIAL USE OF THE DESIGNATED RECIPIENT(S) NAMED ABOVE. THIS MESSAGE MAY BE AN ATTORNEY-CLIENT COMMUNICATION, AND AS SUCH IS PRIVILEGED AND CONFIDENTIAL. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT OR AN AGENT RESPONSIBLE FOR DELIVERING IT TO THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT YOU HAVE RECEIVED THIS DOCUMENT IN ERROR AND THAT ANY REVIEW, DISSEMINATION, DISTRIBUTION OR COPYING OF THIS MESSAGE IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE AND RETURN THE ORIGINAL MESSAGE TO US BY MAIL. THANK YOU.

BEST AVAILABLE COPYIN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):	Yin S. Tang		
Title:	Microlens Arrays		
Serial No.:	10/758,989	Filing Date	January 16, 2004
Examiner:	Unassigned	Group Art Unit:	1731
Docket No.:	M-15319 US	Confirmation No.	7910

Irvine, California
December 9, 2004

Fax No. 703-746-9195
PATENT EXAMINATION'S FILING RECEIPT CORRECTION
COMMISSIONER FOR PATENTS
Alexandria, VA 22313-1450

OFFICIAL COMMUNICATION**CERTIFICATION OF FACSIMILE TRANSMISSION**

I hereby certify that the following Request for a Corrected Filing Receipt (2 pages), Filing Receipt (2 pages), and First Page of Utility Patent Application (1 page) are being facsimile transmitted to the Patent and Trademark Office on the date shown below.

Dated: December 9, 2004



Greg J. Michelson
Reg. No. 44,940

MacPherson Kwok Chen & Heid LLP
1762 Technology Drive
Suite 226
San Jose, California 95110
Telephone: (949) 752-7040
Fax: (408) 392-9262

LAW OFFICES OF
MACPHERSON KWOK CHEN
& HEID LLP

2402 MICHELSON DRIVE
SUITE 210
IRVINE, CA 92612
(949) 752-7040
FAX (949) 752-7049

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):	Yin S. Tang	BEST AVAILABLE COPY	
Title:	Microlens Arrays		
Serial No.:	10/758,989	Filing Date	January 16, 2004
Examiner:	Unassigned	Group Art Unit:	1731
Docket No.:	M-15319 US	Confirmation No.	7910

Irvine, California
December 9, 2004

Fax No. 703-746-9195
PATENT EXAMINATION'S FILING RECEIPT CORRECTION
COMMISSIONER FOR PATENTS
Alexandria, VA 22313-1450

REQUEST FOR A CORRECTED FILING RECEIPT

Dear Sir:

Attached is a copy of the official Filing Receipt received from the Patent and Trademark Office in the above-noted application for which issuance of a corrected filing receipt is respectfully requested.

The Filing Receipt does not list the Domestic Priority data as claimed by applicant. It should read: This application is a continuation-in-part of U.S. Application No. 10/754,365, filed January 8, 2004. A copy of a first page of the utility application which was filed with the U.S. Patent and Trademark Office on January 16, 2004 is attached.

This correction is due to the PTO's error so no fee is due at this time. Please deduct any additional fees from, or credit any overpayment to the Deposit Account 50-2257.

LAW OFFICES OF
MACLELLAN KWOK CHEN
& HEID LLP

2402 MICHILSON DRIVES
SUITE 210
IRVINE, CA 92612
(714) 752-7040
FAX (714) 752-7049

BEST AVAILABLE COPY

Please telephone the undersigned at (949) 752-7040 if there are any questions.

Certificate of Transmission

I hereby certify that this correspondence is being facsimile transmitted to the Commissioner for Patents, Fax No. 703-746-9198 on the date stated below..

Tina Kavanagh
Tina Kavanagh

December 9, 2004

Respectfully submitted,

Greg J. Michelson

Greg J. Michelson
Attorney for Applicant(s)
Reg. No. 44,940

LAW OFFICES OF
MACPHERSON KWOK COHEN
& BEID LLP

2403 MICHELSON DRIVE
SUITE 210
IRVINE, CA 92612
(949) 752-7040
FAX (949) 752-7049

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
www.uspto.gov

APPL. NO.	FILING OR 371 (C) DATE	ART UNIT	FIL FEE REC'D	ATTY.DOCKET NO.	DRAWINGS	TOT CLMS	IND CLMS
10/758,989	01/16/2004	1731	484	M-15319 US	12	31	3

CONFIRMATION NO. 7910

Greg J. Michelson
 MacPHERSON KWOK CHEN & HEID LLP
 Suite 226
 1762 Technology Drive
 San Jose, CA 95110

UPDATED FILING RECEIPT

OC000000012988047

Date Mailed: 06/18/2004

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Yin S. Tang, Irvine, CA;

Domestic Priority data as claimed by applicant**Foreign Applications****If Required, Foreign Filing License Granted: 04/20/2004****Projected Publication Date: 07/21/2005****Non-Publication Request: No****Early Publication Request: No****** SMALL ENTITY ******Title**

Microlens arrays

Preliminary Class

065

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related application(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

M-15319 US

EXPRESS MAIL LABEL NO: EV411212143US

MICROLENS ARRAYS

Yin S. Tang

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation-in-part of U.S. Application No. [unknown, attorney docket M-15317 US], entitled "Method for Making Micro-Lens Array" and filed January 8, 2004, which is incorporated herein by reference in its entirety.

TECHNICAL FIELD

[0002] This invention relates generally to optics and optical devices and more particularly to microlens arrays, methods for making microlens arrays, and microlens array systems and applications.

BACKGROUND

[0003] Microlens arrays provide optical versatility in a miniature package for imaging applications. Traditionally, a microlens is defined as a lens with a diameter less than one millimeter; however, a lens having a diameter as large as five millimeters or more has sometimes also been considered a microlens.

[0004] There are many conventional methods for manufacturing microlenses. For example, one commonly used technique for manufacturing microlenses begins by coating a substrate with a selected photoresist, exposing the photoresist coated substrate to radiation through a mask, or alternatively, subjecting the photoresist to gray scale laser exposure. Upon heating the substrate, the exposed photoresist melts and surface tension pulls the material into the form of convex lenses. The depth of the photoresist determines the focal length of the lens.

[0005] Another method for the manufacture of microlenses is to use ion exchange. In this method, ions are diffused into a glass rod to give a radial refractive index distribution. The index of refraction is highest in the center of the lens and decreases quadratically as a function of radial distance from the central axis. Microlenses made using the ion exchange method are used to collimate light from fibers as, for example, in telecommunication applications.